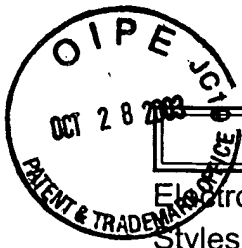




Electronic Filing System (EFS) Data  
Electronic Patent Application Submission  
USPTO Use Only


EFS ID: 49884  
Application ID: 10609035   
Title of Invention: Seismic Signaling Apparatus and  
Method for Enhancing Signal  
Repeatability  
First Named Inventor: Harold Barber  
Domestic/Foreign Application: Domestic Application  
Filing Date: 2003-06-27  
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Statement  
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Confirmation number: 8432  
Attorney Docket Number: 1309-1018  
  
Total Fees Authorized:  
  
Digital Certificate Holder: cn=Lawrence Ray Youst,ou=Registered Attorneys,ou=Patent and  
Trademark Office,ou=Department of Commerce,o=U.S. Government,c=US  
Certificate Message Digest: 0dc082e1f9a9cde17019537b6812f671d856a003



# TRANSMITTAL

Electronic Version v1.1

Stylesheet Version v1.1.0


<b>Title of Invention</b>	<b>Seismic Signaling Apparatus and Method for Enhancing Signal Repeatability</b>									
<p>Application Number: 10/609035 </p> <p>Date: 2003-06-27</p> <p>First Named Applicant: Mr. Harold P. Barber Sr.</p> <p>Confirmation Number: 8432</p> <p>Attorney Docket Number: 1309-1018</p>										
<p>I hereby certify that the use of this system is for OFFICIAL correspondence between patent applicants or their representatives and the USPTO. Fraudulent or other use besides the filing of official correspondence by authorized parties is strictly prohibited, and subject to a fine and/or imprisonment under applicable law.</p> <p>I, the undersigned, certify that I have viewed a display of document(s) being electronically submitted to the United States Patent and Trademark Office, using either the USPTO provided style sheet or software, and that this is the document(s) I intend for initiation or further prosecution of a patent application noted in the submission. This document(s) will become part of the official electronic record at the USPTO.</p>										
<table border="1"><thead><tr><th>Submitted by:</th><th>Elec. Sign.</th><th>Sign. Capacity</th></tr></thead><tbody><tr><td>Mr. Lawrence R. Youst Registered Number: 38,795</td><td>/Lawrence R. Youst/</td><td>Attorney</td></tr></tbody></table>			Submitted by:	Elec. Sign.	Sign. Capacity	Mr. Lawrence R. Youst Registered Number: 38,795	/Lawrence R. Youst/	Attorney		
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Mr. Lawrence R. Youst Registered Number: 38,795	/Lawrence R. Youst/	Attorney								
<table><tr><td>Documents being submitted</td><td>Files</td></tr><tr><td>us-ids</td><td>IDS-usidst.xml</td></tr><tr><td></td><td>us-ids.dtd</td></tr><tr><td></td><td>us-ids.xsl</td></tr></table>			Documents being submitted	Files	us-ids	IDS-usidst.xml		us-ids.dtd		us-ids.xsl
Documents being submitted	Files									
us-ids	IDS-usidst.xml									
	us-ids.dtd									
	us-ids.xsl									
<b>Comments</b>										



# ELECTRONIC INFORMATION DISCLOSURE STATEMENT

Electronic Version v18

Stylesheet Version v18.0

Title of Invention	Seismic Signaling Apparatus and Method for Enhancing Signal Repeatability																																																																																																													
<div>Application Number: 10/609035 </div> <div>Confirmation Number: 8432</div> <div>First Named Applicant: Harold Barber</div> <div>Attorney Docket Number: 1309-1018</div> <div>Art Unit: 2837</div> <div>Examiner: Awaiting Assignment</div> <div>Search string: ( 4597352 or 4793274 or 4479183 or 4142353 or 4648647 or 5486082 or 4757482 or 6061635 or 5469404 or 4716553 or 4956822 or 4686660 or 4715023 or 4721180 or 6091668 or 3310128 or 3653460 or 3953826 or 4141431 or 4242740 or 4326271 or 4396088 or 4719987 or 1998412 or 4170002 or 4254480 or 4739858 or 5184329 or 5212669 ).pn.</div> <div><h2>US Patent Documents</h2><p>Note: Applicant is not required to submit a paper copy of cited US Patent Documents</p><table border="1"><thead><tr><th>init</th><th>Cite.No.</th><th>Patent No.</th><th>Date</th><th>Patentee</th><th>Kind</th><th>Class</th><th>Subclass</th></tr></thead><tbody><tr><td></td><td>1</td><td>4597352</td><td>1986-07-01</td><td>Norminton</td><td></td><td></td><td></td></tr><tr><td></td><td>2</td><td>4793274</td><td>1988-12-27</td><td>Regone</td><td></td><td></td><td></td></tr><tr><td></td><td>3</td><td>4479183</td><td>1984-10-23</td><td>Ergas</td><td></td><td></td><td></td></tr><tr><td></td><td>4</td><td>4142353</td><td>1979-03-06</td><td>Bruce et al.</td><td></td><td></td><td></td></tr><tr><td></td><td>5</td><td>4648647</td><td>1987-03-10</td><td>Patton</td><td></td><td></td><td></td></tr><tr><td></td><td>6</td><td>5486082</td><td>1996-01-23</td><td>Feldman et al.</td><td></td><td></td><td></td></tr><tr><td></td><td>7</td><td>4757482</td><td>1988-07-12</td><td>Fiske, Jr.</td><td></td><td></td><td></td></tr><tr><td></td><td>8</td><td>6061635</td><td>2000-05-09</td><td>Barber, Sr.</td><td></td><td></td><td></td></tr><tr><td></td><td>9</td><td>5469404</td><td>1995-11-21</td><td>Barber et al.</td><td></td><td></td><td></td></tr><tr><td></td><td>10</td><td>4716553</td><td>1987-12-29</td><td>Dragsund et al.</td><td></td><td></td><td></td></tr><tr><td></td><td>11</td><td>4956822</td><td>1990-09-11</td><td>Barber et al.</td><td></td><td></td><td></td></tr><tr><td></td><td>12</td><td>4686660</td><td>1987-08-11</td><td>Glestrum et al.</td><td></td><td></td><td></td></tr></tbody></table></div>							init	Cite.No.	Patent No.	Date	Patentee	Kind	Class	Subclass		1	4597352	1986-07-01	Norminton					2	4793274	1988-12-27	Regone					3	4479183	1984-10-23	Ergas					4	4142353	1979-03-06	Bruce et al.					5	4648647	1987-03-10	Patton					6	5486082	1996-01-23	Feldman et al.					7	4757482	1988-07-12	Fiske, Jr.					8	6061635	2000-05-09	Barber, Sr.					9	5469404	1995-11-21	Barber et al.					10	4716553	1987-12-29	Dragsund et al.					11	4956822	1990-09-11	Barber et al.					12	4686660	1987-08-11	Glestrum et al.			
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	13	4715023	1987-12-22	Oto
	14	4721180	1988-01-26	Haughland
	15	6091668	2000-07-18	Barber, Sr.
	16	3310128	1967-03-21	Chelminski
	17	3653460	1972-04-04	Chelminski
	18	3953826	1976-04-27	Brundrit et al.
	19	4141431	1979-02-07	Baird
	20	4242740	1980-12-30	Ruehle
	21	4326271	1982-04-20	Ziolkowski
	22	4396088	1983-08-02	Bayhi
	23	4719987	1988-01-19	George, Jr. et al.
	24	1998412	1935-04-16	Prescott
	25	4170002	1979-10-02	Strange
	26	4254480	1981-03-03	French
	27	4739858	1988-04-16	Dragoset
	28	5184329	1993-02-02	Regnault et al.
	29	5212669	1993-05-18	Jenkins

Signature

Examiner Name	Date